NOTIFICATION OF ADDENDUM

ADDENDUM NO. 2

DATED 9/04/2009

Control	**2374-02-124**
Project	**C 2374-2-124**
Highway	**IH 635**
County	**DALLAS**

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an adendum notification which details the changes and the respective proposal pages which were added and/ or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped “This Proposal Issued for Informational Purposes.”

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

04/99

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: C 2374-2-124 CONTROL: 2374-02-124
COUNTY: DALLAS
LETTING: 09/09/2009
REFERENCE NO: 0903

PROPOSAL ADDENDUMS

_ PROPOSAL COVER
X BID INSERTS (SH. NO.: SHEET 7-21 THRU 21-21)
X GENERAL NOTES (SH. NO.: SHEET H)
_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:
ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
ADDED:

DELETED:

X OTHER: PLAN SHEETS

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS: SHEET 7-21: DELETED ITEMS 465-2077 AND 465-2262.
SHEET 8-21: REVISED ITEM 466-2055 QUANTITY TO 1 EA.
REVISED ITEM 476-2004 DESC CODE TO 476-2024.
REVISED ITEM 476-2006 DESC CODE TO 476-2026.
SHEET 9-21: REVISED ITEM 496-2041 QUANTITY TO 4 EA.
SHEET 7-21 THRU 21-21: INFORMATION SHIFTED DUE TO THE ABOVE CHANGES.

GENERAL NOTES: SHEET H: REVISED NOTE FOR ITEM 260.

PLAN SHEETS: REVISED SHEETS 2,11C,12A-12D,14,19,53-60,94-96,212,216, 218,220.
DELETED SHEET 133

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	100	2002	002	PREPARING ROW DOLLARS and CENTS	STA	68.000	1
	104	2001		REMOVING CONC (PAV) DOLLARS and CENTS	SY	25,537.000	2
	104	2009		REMOVING CONC (RIPRAP) DOLLARS and CENTS	SY	843.000	3
	104	2011		REMOVING CONC (MEDIANS) DOLLARS and CENTS	SY	42.000	4
	104	2015		REMOVING CONC (SIDEWALKS) DOLLARS and CENTS	SY	828.000	5
	104	2017		REMOVING CONC (DRIVEWAYS) DOLLARS and CENTS	SY	889.000	6
	104	2025		REMOVE CONC (WINGWALL) DOLLARS and CENTS	CY	3.500	7
	104	2028		REMOVING CONC (MISC) DOLLARS and CENTS	SY	204.000	8
	110	2001		EXCAVATION (ROADWAY) DOLLARS and CENTS	CY	29,652.000	9
	110	2004		EXCAVATION (ROADWAY AND CHANNEL) DOLLARS and CENTS	CY	1,496.000	10

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	ITEM NO	DESC CODE	S.P. NO.				
	132	2025	001	EMBANKMENT (FINAL) (DENS CONT) (TY C1) DOLLARS and CENTS	CY	21,534.000	11
	132	2026	001	EMBANKMENT (FINAL) (DENS CONT) (TY C2) DOLLARS and CENTS	CY	25,528.000	12
	161	2014	001	COMPOST MANUF TOPSOIL (BOS OR PB) (4") DOLLARS and CENTS	SY	51,733.000	13
	162	2002		BLOCK SODDING DOLLARS and CENTS	SY	53,271.000	14
	164	2003	002	BROADCAST SEED (PERM) (RURAL) (CLAY) DOLLARS and CENTS	SY	649.000	15
	168	2001		VEGETATIVE WATERING DOLLARS and CENTS	MG	2,642.000	16
	169	2001	002	SOIL RETENTION BLANKETS (CL 1) (TY A) DOLLARS and CENTS	SY	1,000.000	17
	170	2001		IRRIGATION SYSTEM DOLLARS and CENTS	LS	1.000	18
	192	2024		PLANT MATERIAL (30 GAL) (TREE) DOLLARS and CENTS	EA	3.000	19
	192	2025		PLANT MATERIAL (45 GAL) (TREE) DOLLARS and CENTS	EA	5.000	20

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	ITEM NO	DESC CODE	S.P. NO.				
	192	2031		PLANT MATERIAL (5 GAL) (SHRUB) DOLLARS and CENTS	EA	13.000	21
	192	2033		PLANT MATERIAL (15 GAL) (SHRUB) DOLLARS and CENTS	EA	10.000	22
	260	2014	001	LIME TRT (SUBGR)(DC)(6") DOLLARS and CENTS	SY	48,077.000	23
	260	2016	001	LIME (HYD, COM, OR QK(SLURRY)) DOLLARS and CENTS	TON	2,186.000	24
	260	2054	001	LIME TRT (NEW BASE)(10") DOLLARS and CENTS	SY	46,118.000	25
	310	2001		PRIME COAT (MC-30) DOLLARS and CENTS	GAL	8,829.000	26
	341	2011	020	D-GR HMA(QCQA) TY-B PG64-22 DOLLARS and CENTS	TON	9,712.000	27
	360	2003	003	CONC PVMT (CONT REINF-CRCP)(10") DOLLARS and CENTS	SY	42,205.000	28
	402	2001		TRENCH EXCAVATION PROTECTION DOLLARS and CENTS	LF	2,268.000	29
	403	2001		TEMPORARY SPL SHORING DOLLARS and CENTS	SF	14,806.000	30
	416	2022	001	DRILL SHAFT (SIGN MTS)(48 IN) DOLLARS and CENTS	LF	15.000	31

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	ITEM NO	DESC CODE	S.P. NO.				
	416	2026	001	DRILL SHAFT (HIGH MAST POLE)(60 IN) DOLLARS and CENTS	LF	40.000	32
	416	2030	001	DRILL SHAFT (TRF SIG POLE) (24 IN) DOLLARS and CENTS	LF	30.000	33
	416	2031	001	DRILL SHAFT (TRF SIG POLE) (30 IN) DOLLARS and CENTS	LF	12.000	34
	416	2032	001	DRILL SHAFT (TRF SIG POLE) (36 IN) DOLLARS and CENTS	LF	28.000	35
	423	2006		RETAINING WALL (CONC BLOCK) DOLLARS and CENTS	SF	11,380.000	36
	423	2012		RETAINING WALL (CAST-IN-PLACE) DOLLARS and CENTS	SF	2,285.000	37
	432	2040		RIPRAP (MOW STRIP)(5 IN) DOLLARS and CENTS	CY	120.000	38
	432	2046		RIPRAP (CONC)(CL A)(5 IN) DOLLARS and CENTS	CY	18.800	39
	432	2048		RIPRAP (CONC)(FLUME) DOLLARS and CENTS	CY	8.700	40
	450	2064		RAIL (TY C221) DOLLARS and CENTS	LF	351.490	41
	450	2080		RAIL (TY T221) DOLLARS and CENTS	LF	1,083.000	42

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	ITEM NO	DESC CODE	S.P. NO.				
	459	2012		GABION MATTRESSES (GALV)(18 IN) DOLLARS and CENTS	SY	242.000	43
	462	2004		CONC BOX CULV (4 FT X 3 FT) DOLLARS and CENTS	LF	365.000	44
	462	2010		CONC BOX CULV (6 FT X 3 FT) DOLLARS and CENTS	LF	60.000	45
	462	2015		CONC BOX CULV (7 FT X 4 FT) DOLLARS and CENTS	LF	18.000	46
	462	2019		CONC BOX CULV (8 FT X 4 FT) DOLLARS and CENTS	LF	12.000	47
	462	2023		CONC BOX CULV (8 FT X 8 FT) DOLLARS and CENTS	LF	904.000	48
	464	2003	003	RC PIPE (CL III)(18 IN) DOLLARS and CENTS	LF	250.000	49
	464	2005	003	RC PIPE (CL III)(24 IN) DOLLARS and CENTS	LF	887.000	50
	464	2007	003	RC PIPE (CL III)(30 IN) DOLLARS and CENTS	LF	673.000	51
	464	2009	003	RC PIPE (CL III)(36 IN) DOLLARS and CENTS	LF	1,705.000	52
	464	2010	003	RC PIPE (CL III)(42 IN) DOLLARS and CENTS	LF	111.000	53

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	ITEM NO	DESC CODE	S.P. NO.				
	464	2011	003	RC PIPE (CL III)(48 IN) DOLLARS and CENTS	LF	256.000	54
	464	2040	003	RC PIPE (CL V)(36 IN) DOLLARS and CENTS	LF	307.000	55
	464	2042	003	RC PIPE (CL V)(48 IN) DOLLARS and CENTS	LF	306.000	56
	465	2005	001	MANH (COMPL)(TY M) DOLLARS and CENTS	EA	1.000	57
	465	2029	001	INLET (COMPL)(CURB)(TY 1)(5’ X 3’) DOLLARS and CENTS	EA	2.000	58
	465	2032	001	INLET (COMPL)(CURB)(TY 1)(10’ X 3’) DOLLARS and CENTS	EA	2.000	59
	465	2033	001	INLET (COMPL)(CURB)(TY 1)(10’ X 4’) DOLLARS and CENTS	EA	1.000	60
	465	2034	001	INLET (COMPL)(CURB)(TY 1)(10’ X 5’) DOLLARS and CENTS	EA	1.000	61
	465	2035	001	INLET (COMPL)(CURB)(TY 1)(15’ X 3’) DOLLARS and CENTS	EA	3.000	62
	465	2036	001	INLET (COMPL)(CURB)(TY 1)(15’ X 4’) DOLLARS and CENTS	EA	2.000	63
	465	2037	001	INLET (COMPL)(CURB)(TY 1)(15’ X 5’) DOLLARS and CENTS	EA	2.000	64

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	ITEM NO	DESC CODE	S.P. NO.				
	465	2039	001	INLET (COMPL)(CURB)(TY 1)(20’ X 4’) DOLLARS and CENTS	EA	3.000	65
	465	2040	001	INLET (COMPL)(CURB)(TY 1)(20’ X 5’) DOLLARS and CENTS	EA	1.000	66
	465	2100	001	INLET (COMPL)(TY 1) DOLLARS and CENTS	EA	13.000	67
	465	2104	001	INLET EXT DOLLARS and CENTS	EA	15.000	68
	465	2309	001	INLET (COMPL)(CURB)(10’)(MOD) DOLLARS and CENTS	EA	11.000	69
	465	2500	001	INLET(COMPL)(DROP)(TY C)(3-GRATE) DOLLARS and CENTS	EA	3.000	70
	466	2050		WINGWALL (PW)(HW=6 FT) DOLLARS and CENTS	EA	1.000	71
	466	2053		WINGWALL (PW)(HW=9 FT) DOLLARS and CENTS	EA	1.000	72
	466	2054		WINGWALL (PW)(HW=10 FT) DOLLARS and CENTS	EA	2.000	73
	466	2055		WINGWALL (PW)(HW=11 FT) DOLLARS and CENTS	EA	1.000	74
	466	2057		WINGWALL (PW)(HW=13 FT) DOLLARS and CENTS	EA	2.000	75

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	ITEM NO	DESC CODE	S.P. NO.				
	466	2067		HEADWALL (CH-FW-0)(DIA= 30 IN) DOLLARS and CENTS	EA	1.000	76
	466	2069		HEADWALL (CH-FW-0)(DIA= 36 IN) DOLLARS and CENTS	EA	3.000	77
	466	2071		HEADWALL (CH-FW-0)(DIA= 48 IN) DOLLARS and CENTS	EA	1.000	78
	466	2097		HEADWALL (CH-FW-30)(DIA= 30 IN) DOLLARS and CENTS	EA	1.000	79
	466	2203		HEADWALL (SPECIAL) DOLLARS and CENTS	EA	1.000	80
	476	2024		JACK BOR OR TUN PIPE(36 IN)(RC)(CL V) DOLLARS and CENTS	LF	180.000	81
	476	2026		JACK BOR OR TUN PIPE(48 IN)(RC)(CL V) DOLLARS and CENTS	LF	207.000	82
	496	2002		REMOV STR (INLET) DOLLARS and CENTS	EA	3.000	83
	496	2006		REMOV STR (HEADWALL) DOLLARS and CENTS	EA	11.000	84
	496	2007		REMOV STR (PIPE) DOLLARS and CENTS	LF	729.000	85
	496	2008		REMOV STR (BOX CULVERT) DOLLARS and CENTS	LF	801.000	86

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	ITEM NO	DESC CODE	S.P. NO.				
	496	2035		REMOV STR (DRILL SHAFT) DOLLARS and CENTS	EA	3.000	87
	496	2041		REMOV STR (LARGE) DOLLARS and CENTS	EA	4.000	88
	500	2001	005	MOBILIZATION DOLLARS and CENTS	LS	1.000	89
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HAN-DLING DOLLARS and CENTS	MO	22.000	90
	506	2002	011	ROCK FILTER DAMS (INSTALL) (TY 2) DOLLARS and CENTS	LF	315.000	91
	506	2009	011	ROCK FILTER DAMS (REMOVE) DOLLARS and CENTS	LF	315.000	92
	506	2016	011	CONSTRUCTION EXITS (INSTALL) (TY 1) DOLLARS and CENTS	SY	1,482.000	93
	506	2019	011	CONSTRUCTION EXITS (REMOVE) DOLLARS and CENTS	SY	1,482.000	94
	506	2022	011	EARTHWORK (ERSN & SEDM CONT, IN VEH) DOLLARS and CENTS	CY	21.500	95
	506	2027	011	BLADING WORK (EROSION & SEDM CONT) DOLLARS and CENTS	HR	200.000	96

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	ITEM NO	DESC CODE	S.P. NO.				
	506	2034	011	TEMPORARY SEDIMENT CONTROL FENCE DOLLARS and CENTS	LF	2,391.000	97
	506	2037	011	SANDBAGS FOR EROSION CONTROL (12") DOLLARS and CENTS	LF	390.000	98
	506	2042	011	BIODEGRADABLE EROSION CONTROL LOGS(18") DOLLARS and CENTS	LF	60.000	99
	508	2002		CONSTRUCTING DETOURS DOLLARS and CENTS	SY	2,852.000	100
	512	2010	002	PORT CTB (DES SOURCE)(SAFETY SH)(TY 1) DOLLARS and CENTS	LF	5,370.000	101
	512	2017	002	PORT CTB (DES SOURCE)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,620.000	102
	512	2018	002	PORT CTB (DES SOURCE)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	120.000	103
	512	2019	002	PORT CTB (MOVE)(SAFETY SH)(TY 1) DOLLARS and CENTS	LF	2,380.000	104
	512	2028	002	PORT CTB (STKPL)(SAFETY SH)(TY 1) DOLLARS and CENTS	LF	5,370.000	105
	512	2035	002	PORT CTB (STKPL)(LOW PROF)(TY 1) DOLLARS and CENTS	LF	3,620.000	106

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	ITEM NO	DESC CODE	S.P. NO.				
	512	2036	002	PORT CTB (STKPL)(LOW PROF)(TY 2) DOLLARS and CENTS	LF	120.000	107
	528	2001		COLORED TEXTURED CONC (4") DOLLARS and CENTS	SY	826.300	108
	529	2006		CONC CURB (MONO) (TY II) DOLLARS and CENTS	LF	11,772.000	109
	529	2007		CONC CURB (DOWEL) DOLLARS and CENTS	LF	160.000	110
	530	2010		DRIVEWAYS (CONC) DOLLARS and CENTS	SY	1,472.000	111
	531	2005		CURB RAMPS (TY 1) DOLLARS and CENTS	EA	1.000	112
	531	2006		CURB RAMPS (TY 2) DOLLARS and CENTS	EA	9.000	113
	531	2011		CURB RAMPS (TY 8) DOLLARS and CENTS	EA	8.000	114
	531	2013		CURB RAMPS (TY 20) DOLLARS and CENTS	EA	1.000	115
	531	2015		CONC SIDEWLKS (4") DOLLARS and CENTS	SY	3,393.000	116
	531	2017		CURB RAMPS (TY 21) DOLLARS and CENTS	EA	1.000	117

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	ITEM NO	DESC CODE	S.P. NO.				
	531	2041		CURB RAMPS (TY 10) DOLLARS and CENTS	EA	28.000	118
	536	2002		CONC MEDIAN DOLLARS and CENTS	SY	350.000	119
	536	2004		CONC DIRECTIONAL ISLAND DOLLARS and CENTS	SY	185.000	120
	540	2002	015	MTL W-BEAM GD FEN (STEEL POST) DOLLARS and CENTS	LF	1,906.000	121
	540	2005	015	TERMINAL ANCHOR SECTION DOLLARS and CENTS	EA	2.000	122
	540	2011	015	MTL BEAM GD FEN TRANS (THRIE-BEAM) DOLLARS and CENTS	EA	4.000	123
	542	2001		REMOVING METAL BEAM GUARD FENCE DOLLARS and CENTS	LF	1,126.000	124
	544	2001		GUARDRAIL END TREATMENT (INSTALL) DOLLARS and CENTS	EA	3.000	125
	545	2022		CRASH CUSH ATTEN (INSTL)(REACT)(N) DOLLARS and CENTS	EA	7.000	126
	545	2023		CRASH CUSH ATTEN (MOVE&RESET)(REACT)(N) DOLLARS and CENTS	EA	2.000	127

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	ITEM NO	DESC CODE	S.P. NO.				
	545	2024		CRASH CUSH ATTEN (REMOVE)(REACT)(N) DOLLARS and CENTS	EA	7.000	128
	618	2012		CONDT (PVC) (SCHD 40) (1") DOLLARS and CENTS	LF	92.000	129
	618	2018		CONDT (PVC) (SCHD 40) (2") DOLLARS and CENTS	LF	1,186.000	130
	618	2019		CONDT (PVC) (SCHD 40) (2") (BORE) DOLLARS and CENTS	LF	1,012.000	131
	618	2022		CONDT (PVC) (SCHD 40) (3") DOLLARS and CENTS	LF	242.000	132
	618	2023		CONDT (PVC) (SCHD 40) (3") (BORE) DOLLARS and CENTS	LF	495.000	133
	620	2003	001	ELEC CONDR (NO. 2) BARE DOLLARS and CENTS	LF	728.000	134
	620	2004	001	ELEC CONDR (NO. 2) INSULATED DOLLARS and CENTS	LF	1,456.000	135
	620	2007	001	ELEC CONDR (NO. 4) BARE DOLLARS and CENTS	LF	260.000	136
	620	2008	001	ELEC CONDR (NO. 4) INSULATED DOLLARS and CENTS	LF	520.000	137
	620	2009	001	ELEC CONDR (NO. 6) BARE DOLLARS and CENTS	LF	1,140.000	138

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	ITEM NO	DESC CODE	S.P. NO.				
	620	2010	001	ELEC CONDR (NO. 6) INSULATED DOLLARS and CENTS	LF	3,318.000	139
	620	2011	001	ELEC CONDR (NO. 8) BARE DOLLARS and CENTS	LF	874.000	140
	620	2012	001	ELEC CONDR (NO. 8) INSULATED DOLLARS and CENTS	LF	3,312.000	141
	620	2014	001	ELEC CONDR (NO.10) INSULATED DOLLARS and CENTS	LF	1,012.000	142
	620	2016	001	ELEC CONDR (NO.12) INSULATED DOLLARS and CENTS	LF	240.000	143
	624	2008		GROUND BOX TY A (122311) W/APRON DOLLARS and CENTS	EA	6.000	144
	624	2012		GROUND BOX TY C (162911) W/APRON DOLLARS and CENTS	EA	7.000	145
	628	2158		REMOVE ELECTRICAL SERVICES DOLLARS and CENTS	EA	2.000	146
	628	2177		ELC SRV TY A 240/480 100 (NS)SS(E)GC(O) DOLLARS and CENTS	EA	2.000	147
	636	2001	014	ALUMINUM SIGNS (TY A) DOLLARS and CENTS	SF	129.080	148
	644	2001		INS SM RD SN SUP&AM TY 10BWG(1) SA(P) DOLLARS and CENTS	EA	38.000	149

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	ITEM NO	DESC CODE	S.P. NO.				
	644	2004		INS SM RD SN SUP&AM TY 10BWG(1) SA(T) DOLLARS and CENTS	EA	6.000	150
	644	2006		INS SM RD SN SUP&AM TY 10BWG(1) SA(U) DOLLARS and CENTS	EA	1.000	151
	644	2027		INS SM RD SN SUP&AM TY S80(1) SA(U) DOLLARS and CENTS	EA	2.000	152
	644	2042		INS SM RD SN SUP&AM TY S80(2) SA(P) DOLLARS and CENTS	EA	1.000	153
	644	2056		RELOCATE SM RD SN SUP & AM TY 10BWG DOLLARS and CENTS	EA	7.000	154
	644	2060		REMOVE SM RD SN SUP & AM DOLLARS and CENTS	EA	37.000	155
	650	2172		RELOCATE EXISTING OVERHD SIGN SUP DOLLARS and CENTS	EA	1.000	156
	658	2258		INSTL DEL ASSM (D-SW)SZ (TYC)CTB DOLLARS and CENTS	EA	5.000	157
	658	2263		INSTL DEL ASSM (D-SY)SZ 1(FLX)GND DOLLARS and CENTS	EA	7.000	158
	658	2277		INSTL DEL ASSM (D-SY)SZ (TYC)CTB DOLLARS and CENTS	EA	7.000	159
	658	2292		INSTL DEL ASSM (D-DW)SZ 1(FLX)GND DOLLARS and CENTS	EA	13.000	160

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	ITEM NO	DESC CODE	S.P. NO.				
	658	2294		INSTL DEL ASSM (D-DW)SZ 1(FLX)SRF DOLLARS and CENTS	EA	26.000	161
	658	2312		INSTL OM ASSM (OM-4) (TWT)WS DOLLARS and CENTS	EA	3.000	162
	658	2315		INSTL OM ASSM (OM-2Y)(WC) GND DOLLARS and CENTS	EA	6.000	163
	658	2329		INSTL DEL ASSM (D-SW)SZ 1(FLX)GND DOLLARS and CENTS	EA	20.000	164
	662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	3,600.000	165
	662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	7,440.000	166
	662	2064		WK ZN PAV MRK REMOV (W) 4" (BRK) DOLLARS and CENTS	LF	180.000	167
	662	2066		WK ZN PAV MRK REMOV (W) 4" (LNDP) DOLLARS and CENTS	LF	24.000	168
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD) DOLLARS and CENTS	LF	12,572.000	169
	662	2075		WK ZN PAV MRK REMOV (W) 8" (SLD) DOLLARS and CENTS	LF	4,841.000	170
	662	2076		WK ZN PAV MRK REMOV (W) 12" (LNDP) DOLLARS and CENTS	LF	126.000	171

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	ITEM NO	DESC CODE	S.P. NO.				
	662	2077		WK ZN PAV MRK REMOV (W) 12" (SLD) DOLLARS and CENTS	LF	326.000	172
	662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD) DOLLARS and CENTS	LF	244.000	173
	662	2086		WK ZN PAV MRK REMOV (W) (ENTR GORE) DOLLARS and CENTS	EA	1.000	174
	662	2087		WK ZN PAV MRK REMOV (W) (EXIT GORE) DOLLARS and CENTS	EA	1.000	175
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD) DOLLARS and CENTS	LF	9,486.000	176
	666	2003		REFL PAV MRK TY I (W) 4" (BRK)(100MIL) DOLLARS and CENTS	LF	9,186.000	177
	666	2018		REFL PAV MRK TY I (W) 6" (DOT)(100MIL) DOLLARS and CENTS	LF	73.000	178
	666	2024		REFL PAV MRK TY I (W) 6" (SLD)(100MIL) DOLLARS and CENTS	LF	14,360.000	179
	666	2036		REFL PAV MRK TY I (W) 8" (SLD)(100MIL) DOLLARS and CENTS	LF	6,586.000	180
	666	2039		REFL PAV MRK TY I (W) 12"(LNDP)(100MIL) DOLLARS and CENTS	LF	850.000	181
	666	2042		REFL PAV MRK TY I (W) 12"(SLD)(100MIL) DOLLARS and CENTS	LF	1,051.000	182

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	666	2048		REFL PAV MRK TY I (W) 24"(SLD)(100MIL) DOLLARS and CENTS	LF	939.000	183
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL) DOLLARS and CENTS	EA	15.000	184
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL) DOLLARS and CENTS	EA	15.000	185
	666	2102		REF PAV MRK TY I(W)36"(YLD TRI)(100MIL) DOLLARS and CENTS	EA	5.000	186
	666	2111		REFL PAV MRK TY I (Y) 4" (SLD)(100MIL) DOLLARS and CENTS	LF	232.000	187
	666	2120		REFL PAV MRK TY I (Y) 6" (SLD)(100MIL) DOLLARS and CENTS	LF	7,674.000	188
	666	2189		PAVEMENT SEALER 4" DOLLARS and CENTS	LF	40,878.000	189
	672	2017	034	REFL PAV MRKR TY II-C-R DOLLARS and CENTS	EA	198.000	190
	678	2001		PAV SURF PREP FOR MRK (4") DOLLARS and CENTS	LF	32,933.000	191
	680	2002		INSTALL HWY TRF SIG (ISOLATED) DOLLARS and CENTS	EA	2.000	192
	681	2001		TEMP TRAF SIGNALS DOLLARS and CENTS	EA	2.000	193

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	682	2001	001	BACK PLATE (12 IN) (3 SEC) DOLLARS and CENTS	EA	10.000	194
	682	2003	001	BACK PLATE (12 IN) (5 SEC) DOLLARS and CENTS	EA	3.000	195
	682	2014	001	PED SIG SEC (12 IN) LED (2 INDICATIONS) DOLLARS and CENTS	EA	10.000	196
	682	2022	001	VEH SIG SEC (12 IN) LED (GRN ARW) DOLLARS and CENTS	EA	3.000	197
	682	2023	001	VEH SIG SEC (12 IN) LED (GRN) DOLLARS and CENTS	EA	13.000	198
	682	2024	001	VEH SIG SEC (12 IN) LED (YEL ARW) DOLLARS and CENTS	EA	3.000	199
	682	2025	001	VEH SIG SEC (12 IN) LED (YEL) DOLLARS and CENTS	EA	13.000	200
	682	2027	001	VEH SIG SEC (12 IN) LED (RED) DOLLARS and CENTS	EA	13.000	201
	682	2048	001	VEH SIG SEC (12 IN)LED(HOUSE ONLY)ALUM DOLLARS and CENTS	EA	45.000	202
	684	2010		TRF SIG CBL (TY A) (12 AWG) (5 CONDR) DOLLARS and CENTS	LF	235.000	203
	684	2012		TRF SIG CBL (TY A) (12 AWG) (7 CONDR) DOLLARS and CENTS	LF	217.000	204

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	684	2015		TRF SIG CBL (TY A) (12 AWG) (10 CONDR) DOLLARS and CENTS	LF	1,933.000	205
	684	2025		TRF SIG CBL (TY A) (12 AWG) (20 CONDR) DOLLARS and CENTS	LF	680.000	206
	684	2080		TRF SIG CBL (TY C) (14 AWG) (2 CONDR) DOLLARS and CENTS	LF	4,381.000	207
	686	2025		INS TRF SIG PL AM(S) 1 ARM (24’) LUM DOLLARS and CENTS	EA	1.000	208
	686	2041		INS TRF SIG PL AM(S) 1 ARM (40’) LUM DOLLARS and CENTS	EA	1.000	209
	686	2145		INS TRF SIG PL AM(S) 2 ARM (40-36’)LUM DOLLARS and CENTS	EA	1.000	210
	687	2001		PED POLE ASSEMBLY DOLLARS and CENTS	EA	5.000	211
	688	2001		PED DETECT (2 INCH PUSH BTN) DOLLARS and CENTS	EA	10.000	212
	688	2002		VEH LP DETECT (SAWCUT) DOLLARS and CENTS	LF	1,808.000	213
	690	2128		REMOVE PED POLE ASSM DOLLARS and CENTS	EA	3.000	214
	730	2002		FULL-WIDTH MOWING DOLLARS and CENTS	AC	66.000	215

ALT	ITEM-CODE			UNIT BID PRICE ONLY. WRITTEN IN WORDS	UNIT	APPROX QUANTITIES	DEPT USE ONLY
	ITEM NO	DESC CODE	S.P. NO.				
	4022	2002		INTRLOCK ARTICULATING CONC BLKS(6" MIN) DOLLARS and CENTS	SF	33,540.000	216
	6007	2001		REMOVING TRAFFIC SIGNALS DOLLARS and CENTS	EA	3.000	217
	6008	2001		SHIFT OVERHEAD SIGN PANELS DOLLARS and CENTS	EA	4.000	218
	6122	2003		RELOCATE HIGH MAST LIGHTING(150 FT) DOLLARS and CENTS	EA	1.000	219

SW3P RESPONSIBILITIES

TxDOT Area of Responsibility

Responsible for the area defined by the limits of the subject project, except for those areas utilized and operated by the contractor. These areas include, though are not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants.

TxDOT Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and operating the project within the requirements of the CGP for discharging storm water from the subject project and to notify MS4 permit holders of the intent to discharge storm water.

File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Contractor Area of Responsibility

Responsible for all areas under their direct operational control which includes, though not limited to, areas used for field offices, equipment and/or material storage, and concrete or asphalt plants. These areas may be located on or off the subject project's R.O.W.

Contractor Operational Responsibility

Responsible for seeking coverage under the TPDES Construction General Permit (CGP) and adhering to all requirements of the permit for discharging storm water from the areas under their operational control. Perform regular inspections, prepare a written report of deficiencies, and repair deficiencies within the time frame set forth by the permit. File a Notice of Termination with TCEQ upon completion of the project when the exposed areas have been stabilized with a vegetative cover of at least 70%.

Responsible under contractual obligations to TxDOT to install, clean, repair, replace or remove sediment and erosion control devices as indicated on TxDOT's Inspection Reports, or as required by daily construction practices, within the time frame set forth by the permit.

Specification Data

Table 1: Soil Constants Requirements

Item	Description	Plasticity Index		Note
		Max	Min	
132	Embk(DC) (Type C1)	25	10	2
132	Embk(DC) (Type C2)	40	8	1

Note 1: Material excavated from the project must meet the PI requirements when used in the top 10 feet of embankment that supports the pavement structure or other locations shown in the plans. Do not use shale and obtain approval to incorporate shaley clay produced by the construction project.

Note 2: Use as a non-select embankment backfill as defined under Item 423.2.C.1. Use as an embankment to backfill roadway substructure areas as shown in the plans.

Table 2: Basis of Estimate for Permanent Construction

Item	Description	Thickness	Rate		Quantity	
162	Block Sod	N/A			51,733	SY
164	Broadcast Seed	N/A			649	SY
166 *	Fertilizer (12-6-6)	N/A	500	Lbs/Ac	2.7	Ton
168	Vegetative Watering	N/A	240	Mg/Ac	2,642	Mg
204*	Sprinkling (dust cont)	N/A	50	Mg/Ac	540	Mg
260 260 260	Hydrated Lime (slurry) Commercial Lime Slurry Quick Lime (slurry)			7% by wt 7% by wt 7% by wt	2,186 2,186 2,186	Ton Ton Ton
310	Prime Coat (MC-30)	N/A	0.20	Gal/SY	8,829	Gal
341	Hot Mix Asphalt (Ty B)		110	Lbs/SY/In	9,712	Ton

* For contractor's information only

Note: (1) Base material weight based on 1.50 Ton/CY (dry- compacted)
(2) Asphalt weight based on 110 Lbs/SY/inch
(3) Subgrade weight based on 1.485 Ton/CY (dry- compacted)

Table 3: Basis of Estimate for Temporary Erosion Control Items

Item	Description	Rate		Quantity	
166*	Fert (12-6-6)	500	Lbs /Ac	0.05	Ton
168	Vegetative Watering	240	Mg/Ac	0	Mg
*For contractor's information only					

Table 4: Hamburg Wheel Test Requirements

High-Temperature Binder Grade	Test Method	Laboratory Mixture Design or Trial Batch	Production and Placement Test[1]
		Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F	Minimum # of Passes @ 0.5" Rut Depth, Tested @122°F
PG 64-22 or lower	Tex-242-F	7,000	7,000

1. The Engineer may accept if no more than 1of the 5 most recent Hamburg Wheel tests is below the specified number of passes and the failing test is no more than 2000 passes below the specified number of passes.

General:

Access will be provided to all business and residences at all times. Materials, labor and maintenance for these temporary accesses will not be paid for directly but will be considered subsidiary to the various bid items.

The construction, operation and maintenance of the proposed project will be consistent with the state implementation plan as prepared by the Texas Commission on Environmental Quality.

The disturbed area for this project, as shown on the plans is 20.0 acres. However, **the Total Disturbed Area** (TDA) will establish the required authorization for storm water discharges. The TDA of this project will be determined by the sum of the disturbed area in all project locations in the contract, and all disturbed area on all Project-Specific Locations (PSL) located in the project limits and/or within 1 mile of the project limits. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction site as shown on the plans, according to the TDA of the project. The contractor will obtain any required authorization from the TCEQ for the discharge of storm water from any PSL for construction support activities on or off of the project row according to the TDA of the

project. When the TDA for the project exceeds 1 acre, provide a copy of the appropriate application of permit (NOI, or Construction Site Notice) to the engineer, for any PSL located in the project limits or within 1 mile of the project limits. Follow the directives and adhere to all requirements set forth in the TCEQ, Texas Pollution Discharge Elimination System, Construction General Permit (TPDES, CGP).

Prior to contract letting, bidders may obtain a free computer diskette or electronic files (from the engineer's office) that contains the earthwork information. If copies of the actual cross-sections, in addition to or instead of the diskette, are requested, they will be available at the engineer's office for borrowing by copying companies for the purpose of making copies for the bidder at the bidder's expense. This data is for non-construction purposes only and it is the responsibility of the prospective bidder to validate the enclosed data with appropriate plans, specifications and estimate for the project(s).

Install traffic marking signs prior to sealcoat application and remove within three days after placement of traffic markings.

Leave all right of way areas undisturbed until actual construction is to be performed in said areas.

Use established industry and utility safety practices to erect poles, luminaries, signs or structures near any overhead or underground utility. Consult with the appropriate utility company prior to beginning such work.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way on this project. For signal, illumination, surveillance, and communication & control, call 1-800-DIG-TESS (1-800-344-8377), TxDOT Traffic Signal Office (214-320-6682), and TxDOT Freeway Management Office (214-320-4439) for locates a minimum of 48 hours in advance of excavation. For irrigation systems, call TxDOT Maintenance Landscape Office (214-320-6205) for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation.

For the project to be deemed complete, permanently stabilize all unpaved disturbed areas of the project with a vegetative cover at a minimum of 70% density for the control of erosion.

Repair or replace any structures and utilities that might have been damaged by negligence or a failure to have utility locates performed.

Perform all electrical work in accordance with the National Electrical Code and Texas Department of Transportation Specifications.

Consult with Garland Power and Light or other appropriate electric company representatives according to their respective area to coordinate electrical service installations.

Submit all shop drawings, working drawings or other documents which require review sufficiently in advance of scheduled construction to allow no less than thirty (30) calendar days for review and response.

Meet weekly with the engineer to notify him or her of planned work for the upcoming week.

Provide the engineer with a daily work schedule of planned work.

Submit pre-letting questions by e-mail or fax as follows:
e-mail: ywang@dot.state.tx.us
fax: (214) 320-6655.
The answers will be submitted in the same format in which they are received. A file containing these questions and answers will be available for review at the area engineer's office located at 4777 E. Highway 80, Mesquite, Texas.

Material On Hand (MOH) will not be used in calculating partial payments for Mobilization.

Provide the Engineer with a copy of all DBE subcontractor agreements prior to commencing work.

The following standard detail sheets have been modified*:*

MC-8-13 (MOD) – State Standard for Multiple Box Culverts.

Item 8:

This Project will be a Five-Day Workweek in accordance with Article 8.3.A.1.

Item 100:

Remove and replace the existing roadway signs as shown on the plans, or as directed, during construction within the right of way.

The limits of preparing right of way will be measured from Sta. 829+00 to Sta. 897+00 along the centerline of construction.

Item 104:

In those areas where the pavement is not to be overlaid, provide a smooth surface after the curb removal. Planing or grinding is considered an acceptable method at these locations. Measurement and payment is in accordance with this item.

Sawing of concrete is not paid for directly, but is considered subsidiary to this item.

Items 104 and 496:

Concrete pavement removed as a result of removing the inlets will not be paid for directly but will be considered as subsidiary to Item 496.

Removal of all concrete and structures of the types specified in the plans will be paid for under the pertinent bid item. The removal of other types of obstructions encountered will be paid for under Item 100, if applicable.

Items 105:

Saw existing asphalt along neat lines where portions are to be left in place temporarily or permanently. Sawing is not paid for directly, but is subsidiary to this item.

Take possession of recycled asphalt pavement from the project and recycle the material.

Separate the asphalt pavement from the base material. Stockpile the asphalt pavement at the intersection of SH 78 and Business 78 in Lavon. Place the asphalt pavement material in a stockpile that meets the dimensions and requirements designated by the engineer.

Properly dispose of unsalvageable material at your own expense.

Items 110 and 132:

Excavation and embankment for driveways, sleeper slabs, alleys and intersections will not be paid for directly, but will be considered subsidiary to this item.

Scarify and loosen the excavated areas, unpaved surface areas, except rock, to a depth of at least 8 inches and compact in accordance with the specifications.

Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way at no additional expense to the department. Test soil for sulfate levels in accordance with Tex-145-E. Contact the engineer for a list of approved laboratories. Notify the engineer 72 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for specification requirements or material sources specified in the plans.

When lime treatment is allowed to reduce Plasticity Index, apply lime slurry in accordance with Item 260, “Lime Treatment (Road-Mixed).” Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Notify the engineer 48 hours before lime treatment of the material.

Shale is not an acceptable material for embankment. Do not use shaley clays in embankment unless approved in writing.

Items 110, 132 and 164:

Perform vertical tracking on slopes to temporarily stabilize soil. Provide equipment with a track undercarriage capable of producing a linear soil impression measuring at least 12 inches in length by 2 to 4 inches in width by ½ to 2 inches in depth. Do not exceed 12 inches between track cleats. Install continuous linear track impressions where the minimum 12 inches in length impressions is perpendicular to the direction of water flow. This will not be paid for directly but considered subsidiary to this item.

Item 132:

Earth embankment Type C1 and C2, are mainly composed of material other than shale. Furnish material that is free from vegetation or other objectionable material and that conforms to the requirements of Table 1 (Sheet B). If necessary, add lime slurry in accordance with Item 260, "Lime Treatment (Road-Mixed)" in order to meet these requirements. Use Tex-121-E, figure 1, page 5 to calculate the amount of lime required. Furnish material containing sulfate at or below the threshold of 5000 parts per million (ppm). For material with sulfate levels greater than 3000 ppm, allow the mixture to mellow for at least three days, or as directed. Test soil for sulfate levels in accordance with Tex-145-E. Use an approved laboratory to perform tests for sulfate and plasticity index and provide results on sources outside the right of way to the department. Contact the engineer for a list of approved laboratories. Notify the engineer 48 hours before sampling and testing material. Perform split-sample verification testing with the engineer when directed. The engineer will sample and test material produced by the construction project for specification requirements or material sources specified in the plans. The engineer will test material placed or excavated to a depth of one foot below and laterally to one foot outside the proposed treatment limit. Lime treatment and testing of this material will not be paid for directly, but will be considered subsidiary to this item.

Do not use shaley clays in embankment unless approved in writing.

Item 169:

Hydraulically apply Flexterra FGM or CocoFlex ET-FGM, or install North American Green SC150 or Landlok CS2 for erosion control on the specified slopes or areas in the construction plan.

Use of CL 1 (Ty C) product is approved for slopes 1:3 or flatter for this project.
Water for application, seeding, labor, equipment, tools, supplies, materials, fertilizer and incidentals will not be paid for directly but will be subsidiary to this Item.
Apply as required per manufacturer's recommendations.
Use Tables under Item 164 to determine type of seeds to be used.

Item 260:

Furnish and distribute MC-30 smoothly and evenly at the rate of 0.20 gallons per square yard to cure lime, as directed.

Provide Commercial Lime Slurry and apply lime by slurry placement method.

Item 301:

Provide liquid antistripping agents unless otherwise directed. Provide manufacturer's instruction for liquid antistripping agent.

Add the minimum percentage determined by the manufacturer and try subsequent trials at 0.25% increments, unless otherwise instructed by the manufacture.

Item 310:

Do not use MC-30 on base courses placed between April 16 and September 15.

Item 340:

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type C mixture on detour paving.

Hamburg Wheel test requirements for mixes with PG 64-22 shall meet Table 4. The use of RAP is permitted to meet these requirements.

Item 341:

Use aggregate that meets the Surface Aggregate Classification (SAC) requirement of Class B.

Minimum requirement for coarse aggregate 5 cycle magnesium sulfate soundness is 25%. Meet this requirement for type B hot mix only.

Provide the engineer the opportunity to witness all mixture design tests. The engineer may require a retest if not given the opportunity to witness.

Dilution of tack is not allowed.

Provide PG binder 64-22 in Type B mixture.

Item 360.

Use of multiple piece tiebars will be required. Provide chairs for multiple piece tiebars, threaded connectors or other adequate devices, used in concrete paving, or tie them to the pavement reinforcing steel. If approved by the engineer for specific areas, in lieu of multiple piece tiebars, drill holes into the pavement and grout straight tiebars in place with epoxy. Use a non-impact, rotary core drill to prevent damage to the pavement unless otherwise directed. Clean the drill holes and then completely fill with epoxy before inserting the tiebar. Do not bend the tiebars or insert them into plastic concrete without the approval of the engineer.

Provide curbs monolithically constructed with the concrete pavement. If continuous monolithic curb has to be temporarily omitted for any reason, provide dowelled curbs in the proposed areas, as detailed in the plans, and apply an approved epoxy resin to the pavement to receive the curb as directed. This work and materials will not be paid for directly, but is considered subsidiary to this item.

If asphalt curing is used, cure the concrete pavement with MS-2.

Stockpile the concrete aggregates at the plant site.

Provide pavement widening joints, as detailed in the plans, at all locations where concrete pavement is placed adjacent to existing concrete pavement. Installation of these joints is not paid for directly, but is considered subsidiary to this item.

Payment for furnishing and installing the pre-molded expansion joint material between the retaining walls and concrete pavement is not paid for directly, but is considered subsidiary to this item.
Provide a curing machine equipped with rubber tires, or other acceptable arrangement, so that the machine will span the pavement and monolithic curb.

Curb transition is paid for as Type II curb.

The installation of curb openings is not paid for directly, but is considered subsidiary to this item.

Place construction, sawed and contraction joints in accordance with the pavement detail sheet and as directed. Joint locations, other than as shown on the plans, are subject to approval. Pavement leaveouts are required on this project as necessary to provide for traffic at driveways and side streets as shown in the plans or as directed. The cost of providing these leaveouts, including the construction of a suitable crossover connection at each site, is not paid for directly but is considered subsidiary to this item.

If a traveling form paver is used, provide one equipped with an electronically operated horizontal control device.

Provide tiebars in longitudinal joints but do not place them within 15 inches of transverse joints.

Use "mechanical steel placing equipment" at the discretion of the engineer.

Contractor personnel performing job-control testing on concrete must be ACI- Certified. Provide a copy of certification paper to the Engineer upon arrival and before testing at job site. Furnish hard copies of calibration reports for testing equipment when non-TxDOT approved equipment is used to test concrete.

The engineer may allow the use of local commercial laboratories under contract to provide these services.

Item 400:

Structural Excavation is not paid for directly but is considered subsidiary to pertinent Items.

When placing concrete storm drain pipe on slopes of greater than 10 percent, provide cement stabilized backfill to a depth shown on the plans. The aggregate shall conform to the requirements of Article 421.2.E.2.

Item 416:

Extend drilled shaft foundations for overhead sign structures five feet into rock at locations where rock is encountered at a depth less than the drilled shaft lengths shown in the plans.

Form the above-grade portion of drill shafts, or the top two inches if flush with the grade, and provide a smooth finish for all portions of drill shafts extending above proposed ground. Include cost for this work in the unit bid price for this item.

Base all drilled shaft foundations for overhead sign structures on the lengths shown on the plans or as approved in writing. Make calculations for measurement of foundations in accordance with Article 9.1 of the standard specifications. Measure increase or decreases in the quantities required by change in design as specified and the revised quantities will be the basis for payment.

Use concrete classified as “miscellaneous concrete” for ground mounted sign foundations, with the exception of large roadside signs and overhead sign structures.

Do not install PVC and/or rigid metal conduit in sign foundations for sign structures without sign lights.

Form the top 2 inches of drill shafts and provide a satisfactory smooth finish. Include the cost of the work in the unit bid price for this item.

Payment will be made only once for drilling the shaft regardless of the extra work caused by obstructions

Items 416 & 420:

Provide a smooth finish for all portions of drill shafts extending above proposed ground. Include cost for this work in the unit bid price for this item.

Foundations will be paid for once regardless of extra work caused by obstructions.

Item 420:

Apply an ordinary surface finish to all concrete surfaces within 30 days after concrete forms are removed.

NATIONAL BRIDGE INVENTORY NUMBERS:
Provide National Bridge Inventory (NBI) numbers on all bridge class culverts.

For Bridge Class Culverts, place National Bridge Inventory numbers at the middle of the downstream headwall using 3" block letters.

For all conditions, use appropriate die cut stencils and black paint for placement. All materials, labor and incidentals associated with placing NBI numbers are subsidiary to the various bid items.

Item 421:

Furnish mix designs to the Engineer in a format compatible to the latest version of the Department's Construction Management System (SiteManager). Mix Design templates will be provided by the Engineer.

Provide sulfate resistant concrete for box culverts and drill shafts. High performance concrete meets the requirement for sulfate resistant concrete when Class C fly ash and Type I cement is not used in the mix design.

Strength evaluation using maturity testing, Tex-426-A, may be used for all concrete elements except drill shafts and mass concrete pours.

Maturity meters may be used for temperature gradient determination in mass concrete pours.

Air-entrain all concrete except for Class "B" and concrete used in drilled shafts. For structural concrete, if the air content is more than 1.5% below the required air, follow manufacturer recommendations to add the necessary approved air bags to increase the air content at the job site. Limit the adding of air bags in the field to one trial. Do not reject the load of concrete due to low air content; accept concrete based on strength tests.

Item 423:

For concrete block retaining walls, provide a system from one of the following approved suppliers:

Keystone Retaining Walls
Jewell Concrete Products, Inc.
P.O. Box 7115
Waco, Texas 78716
(800) 792-3216

Anchor Wall System
Pavestone Company
P.O. Box 1868
Grapevine, Texas 76051
(817) 481-5802

Versa-Lok Retaining Walls
Palestine Concrete
2202 Chockhill Rd
Dallas, Texas 75212
(972) 263-5077

Amastone Earth Retention Systems
Geowestern, Inc.
P.O. Box 620776
Littleton, Colorado 80162
(866) 761-0883

Pyramid Blockwalls
The Reinforced Earth Company
1331 Airport Freeway, Suite 302
Euless, Texas 76040-4150
(817) 283-5503

Stonewall Retaining Walls
Featherlite Building Products
P.O. Box 1029
Austin, Texas 78767
(512) 472-2424

Mesa Retaining Wall System
Tensar Earth Technologies, Inc., Dallas
P.O. Box 2318
Rockwall, Texas 75087
(214) 507-9694

Allan Block Retaining Walls
Eagle / Cordell Concrete
6415 Hardy Street
Houston, Tx 77022
(800) 933-5509

T-Block Retaining Wall System
T&B Structural Systems
637 W. Hurst Blvd.
Hurst, Tx 76053
(817) 280-9858

Omega Walls
Shaw Technologies, Inc.
P.O. Box 654
Colleyville, Texas 76034
(817) 427-0997

Rockwood Retaining Walls
Western Brick
1603 Spur 529
Rosenberg, Texas 77471
(281) 344-0190

Venture Retaining Walls
Venture Retaining Wall Systems
1333 West 120th Ave., Suite 312
Denver, Colorado 80234
(303) 254-8846

Cornerstone Retaining Walls
Featherlite Building Products
P.O. Box 425
Round Rock, Texas 78680
(512) 255-2573

The constructed block wall will have a uniform texture and appearance.

Unless otherwise noted in the plans, the top of the leveling pad is located 1.5 feet below the proposed ground for block walls and 2.0 feet below the proposed ground for the concrete cast-in-place wall.

Square foot surface area of retaining wall is measured from the top of retaining wall to the top of the leveling pad. Footing adjustments made to accommodate the available optional retaining walls are not measured.

Provide type D backfill as defined under this item for all walls.

Use select embankment material Type D as described in Table 2 “Select Backfill Gradation Limits” (shown for Item 423 in the TxDOT Standard Specifications) for embankments behind all retaining walls. All quantities and payment for Type D select material will be subsidiary to pay item 423.

Supply drainage aggregate meeting the requirements of this item for use as filter material with the retaining wall.

Cement-Stabilized Backfill (CSB) is not permitted.

Rap is not acceptable as backfill for MSE retaining walls.

Unless otherwise noted on the plans, provide flowable backfill meeting the requirements of Item 401 between the back of panels and inlets or drainage pipes where the required compaction can not be achieved. Flowable backfill used for this purpose is subsidiary to this item.

Provide earth reinforcements with a length greater than or equal to 100 percent of the wall height or 8 feet whichever is greater.

Submit design calculations supporting the details necessary to incorporate coping, railing, inlets, drainage, electrical conduits and any additional necessary features.

The contractor has the option of constructing any of the types of retaining walls for which details and specifications are included in the plans. Footing adjustments made to accommodate the available optional retaining walls are not measured. Regardless of option or options chosen, use the same facia pattern throughout the entire project, including cast in place full height retaining walls or retaining wall type abutments.

Submit detailed drawings depicting the patterns and matching of precast with cast-in-place for approval.

At contractor's expense, repair all damage to the precast units (such as chips) as required to match the facia pattern.

Use Embankment Type C2 as non-select embankment backfill as defined under Item 423.2.C.1.

Items 423 and 427:

Unless otherwise noted on the plans, provide a striated finish on all retaining walls and retaining wall type bridge abutments. Supply form liners providing a finish similar to that derived from Lithotex Formliner Pattern T-2150, "Fractured Fin-Grooved", by the l. M. Scofield Company, Pattern P/C 30717, "¾ inch deep Fractured Fin", by Simons, Pattern 373 "Fractured Fin", by Greenstreak, “Adams Rib – Pattern 16950” by Fitzgerald or equal. Maximum depth of the striations is ¾ inch.

For cast in place walls, cast the top two feet smooth.

For retaining wall colors, see table under “Items 427 and 446”.

Item 427:

Finish concrete structures surface area I with an opaque sealer of the color(s) shown elsewhere in the plans in accordance Item 427.

Ensure that surfaces are free of weak surface material, curing compounds and other surface contaminants prior to coating.

Form liner finishes:
Place architectural concrete treatments as shown. Placement is subsidiary to this item.

Where used, provide fractured fin/ribs/striations that are continuous with no apparent curves or discontinuities. Variations of the fractured ribs from true vertical exceeding ¼” for each 4’-0” of panel height are not acceptable.

Provide form liners that release without leaving pieces of liner material on the concrete and without pulling or breaking concrete from the textured surface. Provide form release agents as recommended by the manufacturer. Replace form liners as directed that have become damaged or worn. Replacement of form liners is considered incidental to the work and no additional compensation is provided.

No horizontal splices in the form liner are permitted. Vertical splices may occur only in valleys between fractured ribs.

Provide sample panels a minimum of ten days in advance of starting construction of the textured concrete surfaces. Construct sample panel(s) in accordance with Item 427.4.B.2.d “Form Liner Finish” using each type of approved form liner. Sample panels must meet the requirements of the plans and specifications and be approved before any construction form liners may be ordered, obtained or used. Provide panels having a textured portion at least 5'-0" by 5'-0" with a representative un-textured surrounding surface. If directed, construct and finish additional test panels until a satisfactory concrete surface texture is obtained.

The approved sample panel is the standard of comparison for the production concrete surface texture. If directed, build a new test panel to demonstrate acceptability of any proposed change in construction method.

Tool or replace areas requiring surface treatment that do no match their associated sample panels. Upon completion, tooled or replaced panels must match the associated sample panel. Tooling or replacement is at the contractor's expense.
For proper placement of the expansion joint behind the rail, omit surface finish from the top of T501 (RW) (DAL) rail to bottom of panel as directed.

Joint reveal details & location may vary slightly from what is shown to match the adjacent walls as directed. No additional compensation will be allowed.

Item 432:

Place riprap as detailed on the standard sheet around the high mast pole.

All necessary excavation for riprap will not be paid for directly, but will be subsidiary to Item 432.

Item 450 and 440:

Provide epoxy coated reinforcing steel that embeds into the bridge slab.

Item 464:

The concrete collars and the connections of pipes to existing or proposed concrete boxes or pipe will not be paid for directly but will be considered subsidiary to the various bid items.

At locations where storm drains dead-end, plug with a concrete plug of a thickness equal to 1 ½ inches per foot of diameter of pipe with a minimum thickness of 3 inches. The cost of the plugs shall be included in the unit price bid per foot of the various storm drain pipes.

Item 471:

Tackweld all inlet grates and manhole covers to the frame with two 1-inch welds. Supply un-painted cast iron inlet grate and frame and/or cast iron manhole frame and cover.

Item 496:

Inlet grates and manhole covers become the property of the contractor for disposal.

Items 496 and 506:

When demolishing a structure/s that span the Waters of Texas or a designated wetland, take all practicable precautions to prevent debris from being discharged into the water or within the boundaries of the wetland. Install Best Management Practices before demolition begins and maintain them during the demolition. Remove any debris or construction material that escapes containment devices and are discharged into the restricted areas, before the next rain event or within 24 hours of the discharge.

Item 502:

Provide written proposed lane closure information by 1:00 pm on the business day prior to the proposed closures. Do not close lanes when this requirement is not met.

When excavation is required next to a pavement lane carrying traffic and the widening is not completed by the end of the work day, backfill against the edge of the pavement with at least a 3:1 slope using an acceptable material to support vehicular traffic. Carefully remove and dispose of this material when work resumes. Backfilling pavement edges, and the materials required for the work will be subsidiary to this item.

Erect a Type III barricade immediately in front of or at each end of all stockpiles that are less than 30 feet from the edge of any traveled lane. Place one Type 2 Object Marker (OM-2Y) alongside the stockpile for every 100 feet of stockpile length.

Place barricades and signs in locations that do not obstruct the sight distance of drivers entering the highway from driveways or side streets.

Do not commence work on the road before sunrise. Do not operate or park any equipment/machinery closer than 30 feet from the traveled roadway after sunset unless authorized by the engineer.

Item 504:

Furnish one Field Office and Laboratory (Type B) for this project.

Provide one local phone line to the field office. Supply one phone jack and one telephone per each room in the field office. The cost of the phone installation and various monthly phone service charges will be the contractor's responsibility.

Parking shall be provided for eight (8) vehicles, chain link fencing will be provided around the field office and parking areas.

Provide an all in one printer/scanner/fax/copier with software that is compatible with TxDOT equipment, cost not in excess of $300. This is subsidiary to the bid item.

Item 506:

If temporary construction stream crossings are allowed under a Nationwide Permit, submit in writing for approval the type and location of each temporary stream crossing. Use temporary bridges, timber mats, or other structurally sound and non-eroding material for temporary stream crossings. A temporary culvert crossing will consist of storm sewer pipes and 4- to 8-inch nominal size rock. Temporary stream crossings must not cause more than minimal changes to the hydraulic flow characteristics of the stream, increase flooding, or cause more than minimal degradation of water quality. Remove the temporary stream crossings in their entirety and return the affected areas to their pre-existing elevation. All work and materials use for temporary construction stream crossings will not be paid for directly but are subsidiary to pertinent Items.

SW3P Maintenance Reports are made every seven calendar days. Make corrections as soon as possible before the next anticipated rain event or within seven calendar days after being able to enter the site to work for each BMP. A BMP site being "Too Wet to Work" is the only acceptable reason for not accomplishing the corrections with the seven calendar day time limit and should be thoroughly documented on Form 2118. If maintenance corrections are not made within this time frame then all work will cease, time charges will continue until SW3P is brought into compliance and is documented on Form 2118 after TxDOT review.

This in no way releases the contractor of liability for noncompliance.

Obtain from the Engineer a copy of the project's TPDES Storm Water Program and Notice of Intent or Construction Site Notice. Laminate the sheets and bond with adhesive to 36" X 48" plywood sign blanks. Ensure the sheets remain dry. Apply Type C Blue reflective sheeting as the background and add the text "SW3P" in 5" white lettering, centered at the top. Attach the signs to approved temporary mounts and locate at each of the project limits or as directed by the Engineer. SW3P Signs, maintenance, and repostings will be subsidiary to Item 502.

Item 508:

Testing of materials used in the construction of a temporary detour may be waived when approved by the Engineer.

Item 512:

Contact TxDOT Dallas Area Office at (972)479-9747 to pick-up and return concrete traffic barrier from the storage area located at Luna Road. Number and repair concrete traffic barrier prior to returning to stockpile area. Provide necessary connection hardware for installation of concrete traffic barrier. Retain possession of connection hardware provided for this project. Remove damaged barrier from the project. This work is subsidiary to Item 512.

Furnish pre-cast F Shape Barrier with drainage slots as detailed on the Concrete Safety Barrier Standards. Submit for approval the type of barrier joint connection proposed for the project. Retain possession of the barrier at the end of the project.

Item 529:

Provide grooved joints at 10-foot intervals and ¾ inch expansion joint material for doweled curb at the same locations as on the existing pavement.

For Curb and Gutter sections, provide grooved joints at 10-foot intervals and ¾ inch expansion joint material at a maximum of 50-foot centers and at all radius points and inlets.

Curb and Gutter transitions will be paid for by the foot at the unit price for the corresponding curb or curb and gutter section.

Saw joints at the same location as on the existing pavement.

Item 536:

Use Class “B” concrete for concrete medians and directional islands.

Item 540:

Furnish one type of post throughout the project except as specifically noted in the plans.

Item 542:

Metal beam guard fence removed from this project becomes the property of the contractor for disposal.

Remove or cut off existing anchor bolts and fill holes with grout in bridge slabs as directed.

Item 545:

Stockpile crash cushion attenuators at the intersection of SH 78 and Business 78 in Lavon. The work involved in hauling and handling this material will not be paid for directly, but will be considered subsidiary to this item.

Item 585:

Use Surface Test Type A on all intersections and driveways.

Use Surface Test Type B pay adjustment schedule 2 on the travel lanes.

Use Surface Test Type B pay adjustment schedule 3 on the service roads.

Use Surface Test Type B pay adjustment schedule 2 on the ramps.

Item 610:

Furnish fixture submittals for Roadway Illumination (Special) LED fixtures to project Engineer for approval prior to purchasing fixtures.

Item 618:

The location of conduits and ground boxes are diagrammatic only and may be shifted to accommodate field conditions as directed.

Place conduit under existing pavement by an approved boring method. Do not place boring pits closer than 2 feet from the edge of the pavement unless otherwise directed. Do not use water jetting. When boring is used for under pavement conduit installations, the maximum allowable over-cut is 1" in diameter. When conduits are bored, do not exceed 18 inches in the vertical and horizontal tolerances as measured from the intended target point.

Do not use a pneumatically driven device for punching holes beneath the pavement (commonly known as a "missile").

Furnish and install a non-metallic pull rope in conduit runs in excess of 50 feet.
Use a colored cleaner-primer on all PVC to PVC joints before application of PVC cement.

Seal all conduit ends with a permanently soft, non-toxic duct seal. Use a duct seal that does not adversely affect other plastic materials or corrode metals.

When holes are drilled through concrete structures, use a coring device. Do not use masonry or concrete drills.

Install non-metallic pull ropes in conduit installed for future use and cap using standard weather-tight conduit caps, as approved. This work will not be paid for directly, but is subsidiary to this Item.

Existing conduit may be proposed for reuse in this project. If the existing conduit cannot be used, repair or replace this conduit as directed. Repair of the conduit will be considered subsidiary to Item 618. Probe the existing conduit when locating drill shafts so that its condition will be known before it is needed.

When using existing conduit, ensure that all conduits have bushings and are cleaned of mud and debris. Restrap conduit that is being relocated to new timber poles as if it were a new installation. This work will not be paid for directly, but is subsidiary to this Item.

Item 624:

When using existing ground boxes, ensure that the ground boxes are clean, properly secured, and have a minimum of 9 inches of gravel as a base. This work will not be paid for directly, but is subsidiary to this Item.

Seal ground boxes with polyurethane foam that will not adversely affect other plastic materials or corrode metals (Froth-Pak 115 2.75 density 157833 or approved equal).

Item 628:

Coordinate with the appropriate utility company during the first three weeks of the project lead-time period allowing adequate time for any necessary utility adjustments, transformer installation, etc. Consider this work subsidiary to Item 628.

Blast clean the service pole pedestals in conformance with Class "A" blast cleaning as defined in standard specification Item 446.

Label the service enclosures indicating service address as well as all required information as shown on the Electrical Detail (ED) standard sheets. Labeling shall be silk screening or other acceptable method. This work will not be paid for directly, but is subsidiary to this Item.

When concrete for service pole foundations is required, use Class A in accordance with Item 421, "Concrete for Structures", except consider the concrete subsidiary to Item 628 for payment purposes. When reinforcing steel for service pole foundations is required, it will be in accordance with Item 440,"Reinforcing Steel", except consider the steel subsidiary to Item 628 for payment purposes.

Use only white insulated wire for neutral wire.

Electrical services for illumination shall be set up in the name of City of Garland.

Bill the electrical service power usage to the City of Garland.

Item 636:

Leave the advance guide sign and/or the exit direction sign for an interchange in place at all times unless prior written approval is given. Replace signs removed by the Contractor before the end of the work day.

Manufacture all white legends using Clearview font on overhead and large ground-mounted guide signs. This includes destinations, cardinal directions, exit information and exit numbers. Use the font shown on the existing standard sheets for all route markers (including interstate shields) and “Exit Only” panel information.

Use Type D Super High Specific Intensity (Non-fluorescent Prismatic) sheeting for overhead guide signs (both background and legend), conforming to DMS-8300, Flat Surface Reflective Sheeting. Use ASTM Type VIII and Type IX.

Use Type D Super High Specific Intensity (non-fluorescent Prismatic) sheeting for legends and borders on large ground-mounted guide signs, conforming to DMS-8300, Flat Reflective Sheeting. Use ASTM Type VIII and Type IX. Use Type C High Specific Intensity sheeting for the background on large ground-mounted guide signs, conforming to DMS-8300, Flat Surface Reflective Sheeting.

Attach the DART logo shields supplied by TxDOT to the overhead guide signs as shown in the plans.

Affix a sign identification decal to the back of all signs in accordance with Item 643.

Attach sheeting applied to extruded aluminum panels to each individual extrusion. Lap each extrusion’s horizontal edge with sheeting and do not bridge horizontal gaps between extrusions.

Install new overhead signs tilted "down" at 3º. Furnish and obtain approval of all shop drawings detailing the method to accomplish this installation. All material and labor required for this special installation is considered subsidiary to Item 636.

Place new guide signs on existing overhead sign structures and bridge rail supports. Existing attachment hardware may be reused as permitted. Sign support brackets may be cut or removed as directed; however do not extend or lengthen existing brackets. Furnish any additional sign attachment hardware, support brackets, etc. as required. Payment will not be made for the additional brackets, but is considered subsidiary to this Item.

Ensure the minimum vertical clearance, as shown in the plans, at the highpoint of the roadway after the installation of all overhead signs. Mount new overhead signs with 46% of the sign height positioned below the centerline of the truss, or obtain approval for any exceptions.

Disconnect all sign lighting fixtures on overhead sign structures at the service poles and remove the service poles where indicated on the plans. Abandon associated conduit as directed at these locations. Contact the appropriate power company and close the accounts at these locations. Notify the TxDOT signal shop at (214)320-6682 when the accounts have been closed and remove the meters at these locations and deliver them to the TxDOT signal shop. Remove existing sign lights on all sign structures and bridge mounted signs within the project limits. Disconnect and isolate any existing electrical power supply prior to removal of the sign lights.

Items 644, 647, and 650:

Prior to taking elevations to determine lengths for fabrication of sign posts and/or sign support towers, obtain verification of all proposed locations.

Provide field galvanizing and metalizing equipment, as per Item 445, at all times and make repairs to galvanized surfaces according to the above specification item at intervals as directed.

Base all sign support quantities for pipe and structural steel on the dimensions shown on the approved shop drawings or as approved in writing. Make calculations for measurement of the sign support quantities from the approved show drawing in accordance with Article 9.1 of the standard specifications. Measure increases or decreases in quantities caused by changes in design after the shop drawings are approved as specified ad revised quantities will be the basis for payment.

After sign supports with signs attached have been erected, wash individual units requiring cleaning with an approved cleaning solution to remove all grease, oil, dirt, smears, streaks, and other foreign particles.

Torque the anchor bolts for only the Exit Gore signs to 60 foot-pounds.

Item 650:

All towers and trusses will be match marked, by the fabricator, for erection. Use the tower heights shown in the sign summaries and on the plans for bidding purposes only. Prior to fabrication, take finished grade elevations at the tower locations and determine their exact heights for fabrication in accordance with the details shown on the plans.

Remove the structures indicated on the plans. Removed structure becomes the property of the contractor and is to be removed from the right of way in accordance with all local, state and federal laws.

Project Number: C 2374-2-124 **Sheet:**

County: DALLAS **Control: 2374-02-124**

Highway: IH 635

Item 666:

Provide Type III Glass Traffic Beads that meet the requirements of Departmental Materials Specifications DMS-8290.

Item 672:

Black adhesive will be used on asphalt pavements. White adhesive will be used on concrete pavements.

Item 730:

Mow non-paved areas within the project prior to placement of permanent vegetation. Mow up to eight (8) cycles per growing season.

Item 6122:

Relocate 1 EA of high mast lighting as shown on plans.

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